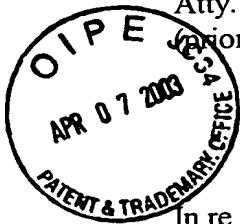


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DLC
04/24/03

Atty. Docket No. 43947
(or docket no. 1710.026)

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

John M. Belcea

: Group Art Unit: 2661

Serial No.: 09/846,479

: Examiner: Olms, Douglas W.

Filed: May 2, 2001

FOR: Time Division Protocol For An Ad-Hoc,
Peer-To-Peer Radio Network Having
Coordinating Channel Access To Shared
Parallel Data Channels With Separate
Reservation Channel

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§1.56 and 1.97-1.98, Applicants request that the Examiner consider the documents listed on the attached PTO-1449 Forms, which may be deemed material to the examination of the above-identified application. All of the documents cited on the attached PTO-1449 Forms are of record in parent application Serial No. 09/815,157, filed March 22, 2001, and therefore, copies of these items are not being provided in accordance with 37 C.F.R. 1.98(d)(2).

All documents, with the exception of French Patent FR2683326, are in English and require no statement of relevance. Regarding French Patent FR2683326, an English abstract is provided as a brief statement of relevance to the above identified Application as required under

37 C.F.R. § 1.98. Also, since the present Information Disclosure Statement is being filed prior to issuance of a first Office Action on the merits, no certification under 37 C.F.R. §§1.97 (e) or fee under 37 C.F.R. §1.17(b) is required.

The Examiner is requested to consider the attached documents in connection with the above-identified application and to return a copy of Form PTO-1449 to the Applicants with the Examiner's initials in the spaces provided.

Submission of this Information Disclosure Statement does not constitute an admission by the Applicants as to the materiality of the attached documents to the application, nor do the Applicants waive any right to challenge the validity of the documents as prior art should such action be deemed appropriate.

Respectfully submitted,

Ronald S. Grubb
Ronald S. Grubb
Attorney for Applicant
Reg. No. 48,672

Roylance, Abrams, Berdo & Goodman, L.L.P.
1300 19th Street, N.W., Suite 600
Washington, D.C. 20036-2680
(202) 659-9076

Dated: April 7, 2003

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE APR 07 2003 INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>		ATTY. DOCKET NO. 43947	SERIAL NO. 09/846,479
		APPLICANT John M. Belcea	
		FILING DATE May 2, 2001	GROUP 2661

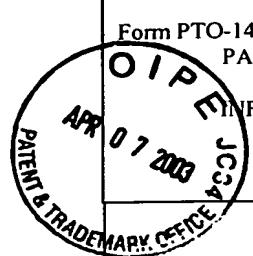
U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	6,359,872	03/19/2002	Mahany et al.	370	338	10/28/1997
	6,349,210	02/19/2002	Li	455	450	11/03/2000
	6,349,091	02/19/2002	Li	370	238	11/07/2000
	6,327,300	12/04/2001	Souissi et al.	375	219	10/25/1999
	6,304,556	10/16/2001	Haas	370	254	08/24/1998
	6,285,892	09/04/2001	Hulyalkar	455	574	11/24/1998
	6,275,707	08/14/2001	Reed et al.	455	456	10/08/1999
	6,249,516	06/19/2001	Brownrigg et al.	370	338	01/27/2000
	6,246,875	06/12/2001	Seazholtz et al.	455	432	03/26/1999
	6,240,294	05/29/2001	Hamilton et al.	455	456	05/30/1997
	6,223,240	04/24/2001	Odenwald et al.	710	129	01/31/2000
	6,222,463	04/24/2001	Rai	340	928	06/25/1998
	6,208,870	03/27/2001	Lorello et al.	455	466	06/01/1999
	6,192,230	02/20/2001	Van Bokhorst et al.	455	343	09/27/1993
	6,192,053	02/20/2001	Angelico et al.	370	448	09/07/1995
	6,178,337	01/23/2001	Spartz et al.	455	561	06/19/1997
	6,163,699	12/19/2000	Naor et al.	455	453	09/15/1997
	6,132,306	10/17/2000	Trompower	453	11.1	03/29/1996
	6,122,690	09/19/2000	Nannetti et al.	710	102	04/17/1998
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	6,067,297	05/23/2000	Beach	370	389	06/28/1996
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	6,064,626	05/16/2000	Stevens	365	233	07/31/1998
	6,052,752	04/18/2000	Kwon	710	126	11/14/1996
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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE
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ATTY. DOCKET NO.
43947

SERIAL NO.
09/846,479

APPLICANT
John M. Belcea

FILING DATE
May 2, 2001

GROUP
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U.S. Patent Documents

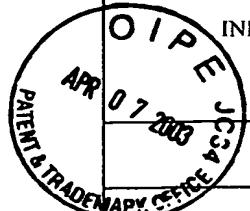
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	5,936,953	08/10/1999	Simmons	370	364	12/18/1997
	5,909,651	06/01/1999	Chander et al.	455	466	05/05/1997
	5,903,559	05/11/1999	Acharya et al.	370	355	12/20/1996
	5,896,561	04/20/1999	Schrader et al.	455	67.1	12/23/1996
	5,886,992	03/23/1999	Raatikainen et al.	370	410	04/15/1997
	5,881,372	03/09/1999	Kruys	455	113	12/01/1995
	5,881,095	03/09/1999	Cadd	375	202	05/01/1997
	5,877,724	03/03/1999	Davis	342	357	03/25/1997
	5,870,350	02/09/1999	Bertin et al.	365	233	05/21/1997
	5,857,084	01/05/1999	Klein	395	309	10/02/1996
	5,845,097	12/01/1998	Kang et al.	395	297	06/03/1996
	5,844,905	12/01/1998	McKay et al.	370	443	07/09/1996
	5,822,309	10/13/1998	Ayanoglu et al.	370	315	06/15/1995
	5,809,518	09/15/1998	Lee	711	115	05/20/1996
	5,805,977	09/08/1998	Hill et al.	455	31.3	04/01/1996
	5,805,842	09/08/1998	Nagaraj et al.	395	306	09/26/1995
	5,805,593	09/08/1998	Busche	370	396	09/26/1995
	5,796,741	08/18/1998	Saito et al.	370	439	03/05/1996
	5,796,732	08/18/1998	Mazzola et al.	370	362	03/28/1996
	5,794,154	08/11/1998	Bar-On et al.	455	509	07/26/1996
	5,787,080	07/28/1998	Hulyalkar et al.	370	348	06/03/1996
	5,781,540	07/14/1998	Malcolm et al.	370	321	06/30/1995
	5,774,876	06/30/1998	Wooley et al.	705	28	06/26/1996
	5,745,483	04/28/1998	Nakagawa et al.	370	335	09/29/1995
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	5,706,428	01/06/1998	Boer et al.	395	200	03/14/1996
	5,701,294	12/23/1997	Ward et al.	370	252	10/02/1995
	5,696,903	12/09/1997	Mahany	395	200.58	04/29/1994
	5,687,194	11/11/1997	Paneth et al.	375	283	04/22/1993
	5,684,794	11/04/1997	Lopez et al.	370	337	01/25/1996
	5,680,392	10/21/1997	Semaan	370	261	01/16/1996
	5,652,751	07/29/1997	Sharony	370	227	03/26/1996
	5,631,897	05/20/1997	Pacheco et al.	370	237	10/01/1993
	5,627,976	05/06/1997	McFarland et al.	395	308	03/20/1995
	5,623,495	04/22/1997	Eng et al.	370	397	06/15/1995
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	5,618,045	04/08/1997	Kagan et al.	463	40	02/08/1995
	5,615,212	03/25/1997	Ruszczky et al.	370	438	09/17/1995

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT John M. Belcea	
				FILING DATE May 2, 2001	GROUP 2661

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	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	5,572,528	11/05/1996	Shuen	370	85.13	03/20/1995
	5,555,540	09/10/1996	Radke	370	16.1	02/17/1995
	5,555,425	09/10/1996	Zeller et al.	395	800	03/07/1990
	5,517,491	05/14/1996	Nanni et al.	370	29	05/05/1995
	5,502,722	03/26/1996	Fulghum	370	69.1	08/01/1994
	5,424,747	06/13/1995	Chazelas	342	70	04/09/1993
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	5,317,566	05/31/1994	Joshi	370	60	08/18/1993
	5,241,542	08/31/1993	Natarajan et al.	370	95.3	08/23/1991
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	4,736,371	04/05/1988	Tejima et al.	370	95	12/29/1986
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	Pub. No.	Pub. Date	Patentee	Class	Sub-class	Filing Date
	2001/0053699	12/20/2001	McCrady et al.	455	513	02/06/2001

Foreign Patent Documents or Foreign Patent Applications

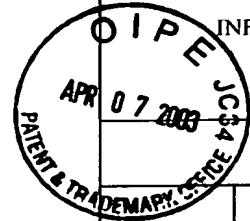
	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation
						Yes No
	EP 0513841 A2	11/19/1992	EPO			X
	EP 0924890 A2	06/23/1999	EPO			X
	EP 0627827 A2	12/07/1994	EPO			X
	WO 9912302	03/11/1999	WIPO			X
	WO 9839936	09/11/1998	WIPO			X

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Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 43947	SERIAL NO. 09/846,479
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>			APPLICANT John M. Belcea	
			FILING DATE May 2, 2001	GROUP 2661

**Foreign Patent Documents or Foreign Patent Applications**

	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
						Yes	No
	WO 9724005	07/03/1997	WIPO			X	
	WO 9608884	03/21/1996	WIPO			X	
	WO 0235253	05/02/2002	WIPO			X	
	WO 0137483	05/25/2001	WIPO			X	
	WO 0137482	05/25/2001	WIPO			X	
	WO 0137481	05/25/2001	WIPO			X	
	WO 0135567	05/17/2001	WIPO			X	
	WO 0133770	05/10/2001	WIPO			X	
	WO 0110154	02/08/2001	WIPO			X	
	WO 0034932	06/15/2000	WIPO			X	
	CA 2132180	03/16/1996	Canada			X	
	FR 2683326	07/05/1993	France				X

Other Documents (including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
		Wong et al., "Soft Handoffs in CDMA Mobile Systems", December 1997, IEEE Personal Communications
		Wong et al., "A Pattern Recognition System for Handoff Algorithms", July 2000, IEEE Journal on Selected Areas in Communications, vol. 18, no. 7
		Andras G. Valko, "Cellular IP: A New Approach to Internet Host Mobility", January 1999, ACM Computer Communication Review
		Richard North, Dale Bryan and Dennis Baker, "Wireless Networked Radios: Comparison of Military, Commercial, and R&D Protocols", February 28-March 3, 1999, 2 nd Annual UCSD Conference on Wireless Communications, San Diego CA
		Benjamin B. Peterson, Chris Kmiecik, Richard Hartnett, Patrick M. Thompson, Jose Mendoza and Hung Nguyen, "Spread Spectrum Indoor Geolocation", August 1998, Navigation: Journal of the Institute of Navigation, vol. 45, no. 2, summer 1998

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw Line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (Modified)

LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENT

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ATTY. DOCKET NO.
43947

SERIAL NO.
09/846,479

APPLICANT
John M. Belcea

FILING DATE
5/2/2001

GROUP 2661

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	5 9 4 3 3 2 2	8/99	Mayor, et al.	370	280	
M						
AC						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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R						
RU						
MX						
MX						
NO						
NP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M	"A Review of Current Routing Protocols for Ad-Hoc Mobile Wireless Networks", Royer, et al., Univ. of Calif.,
M	"The Dynamic Source Routing Protocol for Mobile Ad Hoc Networks", IETF MANET Working Group; Josh Broch, et al., 12/98.
AT	"Ad hoc On-Demand Distance Vector Routing draft-ietf-manet-aodv-08.txt", Mobile Ad Hoc Networking Working Group, Charles E. Perkins, et al., March 2, 2001.

EXAMINER

DATE CONSIDERED

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ATTY. DOCKET NO.
43947

SERIAL NO.
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APPLICANT
JOHN M. BELCEA

FILING DATE
5/2/2001

GROUP
2661

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

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AL							
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AO							
AP							

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MR	"Optimized Link State Routing Protocol", IETE MANET Working Group, Philippe Jacquet, et al., September 2, 2001
	"The Dynamic Source Routing for Mobile Ad Hoc Networks", IETF MANET Working Group, David B. Johnson, et al., March 2, 2001
AT	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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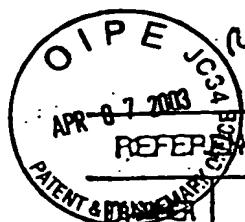
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FORM PTO-1449 (Modified)

1.

LIST OF PATENTS AND PUBLICATIONS FOR
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ATTY. DOCT. NO. 43947	SERIAL NO. 09/846,479
APPLICANT John M. Belcea	
FILING DATE 5/2/2001	GROUP 2661

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

REFL	DOCUMENT NUMBER						DATE	NAME	CARS	SEARCH	FILING DATE IF APPROPRIATE
M	5	5	3	3	0	2	6	7/96	Ahmadi, et al.	370	94
A	5	6	4	4	5	7	6	7/97	Bauchot, et al.	370	437
X	5	7	4	8	6	2	4	5/98	Kondo	370	347
A	5	7	8	7	0	7	6	7/98	Anderson, et al.	370	294
E	5	9	8	7	0	1	1	11/99	Toh	370	331
F	6	0	1	6	3	1	1	1/00	Gilbert, et al.	370	280
A	6	0	2	8	8	5	3	2/00	Haartsen	370	338
H	6	0	2	9	0	7	4	2/00	Irvin	455	571
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K	6	0	9	7	7	0	4	8/00	Jackson, et al.	370	280

FOREIGN PATENT DOCUMENTS

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H								
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H								
A								
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M	"Topology Control of Multihop Wireless Networks using Transmit Power Adjustment", by Ram Ramanathan and Regina Rosales-Hain; BBN Technologies (Division of GTE), Cambridge, Mass. 1997.
A	"Reversing the Collision-Avoidance Handshake in Wireless Networks" by J.J. Garcia-Luna-Aceves and Asimakis Tzamaloukas; Baskin School of Engineering, University of California, Santa Cruz, 1997
E	"Self-Organizing, Self-Healing Wireless Networks", by Chip Elliot and Bob Helle; BBN Technologies, Cambridge, Mass.

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FORM PTO-1469 (Rev. 10-97)

2.

ATTY. DOCT. NO.

43947

SERIAL NO.

09/846,479

APPLICANT

John M. Belcea

FILING DATE

5/2/2001

GROUP 2661

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APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

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EXAMINER DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER NAME		DOCUMENT NUMBER	DATE	AUTHOR	CLASS	SECOND CLASS	FILING DATE IF APPROPRIATE
M	6 1 0 4 7 1 2	8/00	Robert, et al.	370	389		
H	6 1 0 8 3 1 6	8/00	Agrawal, et al.	370	311		
X	6 1 3 0 8 8 1	10/00	Stiller, et al.	370	238		
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SECOND CLASS	TRANSLATION
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A						
R						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MR	"A Performance Comparison of Multi-Hop Wireless Ad Hoc Network Routing Protocols", by Josh Broch, et al., Carnegie Mellon University, Pittsburgh, Pa., Proceedings of the Fourth Annual ACM/IEEE International Conference on Mobile Computing and Networking, 1998.	
	"USAP:A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", by C. David Young, Rockwell International, Richardson, Texas	
AT	"Net Throughput with IEEE 802.11 Wireless LANs", by Ad Kameran and Guido Aben, Lucent Tech., Nieuwegein, The Netherlands	

EXAMINER

DATE 04/08/2003

FORM PTO-1449 (Modifed)	3.	ATTY. DOCT. D. 43947	SERIAL NO. 09/846,479
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT <i>(use several sheets if necessary)</i>		APPLICANT John M. Belcea	
		FLING DATE 5/2/2001	GROUP 2661

O P A T E S C O P Y
APR 07 2003
PATENT CORRESPONDENCE

CORRESPONDENCE DESIGNATION

U.S. PATENT DOCUMENTS

NUMBER REFL	DOCUMENT NUMBER	DATE	NAME	CARS	SEARCH	FLING DATE IF APPROPRIATE
A						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SEARCH	TRANSLATE
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A						
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C						APR 08 2003
D						Technology Center 2600
E						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M	"Transmission-Efficient Routing in Wireless Networks Using Link-State Information", by J.J. Garcia-Luna-Aceves, Baskin School of Engineering, University of California, Santa Cruz; 1997.
N	"The Core-Assisted Mesh Protocol", by J.J. Garcia-Luna-Aceves and Ewerthon L. Madruga, Baskin School of Engineering, University of California, Santa Cruz; 1997.
AT	"Optimization of an Adaptive Link Control Protocol for Multimedia Packet Radio Networks", by J.R. McChesney, et al.; ITT Industries Aerospace Comm. Div.; Ft. Wayne, IN ;1997

EXAMINER

DATE COMPLETED

FORM PTO-1449 (Rev. 10-98)

4.

ATTY. DOCK NO.
43947SERIAL NO.
09/847,479LIST OF PATENTS AND PUBLICATIONS FOR
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APPLICANT

John M. Belcea

FILING DATE
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U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SECOND CLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SECOND CLASS	TRANSLATION YES NO
H						
A						
X						
J						
R						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	"Hierarchically-Organized, Multihop Mobile Wireless Networks for Quality-of-Service Support", by Ram Ramanathan and Martha Steenstrup;	
	BBN Systems and Tech., Cambridge, Mass. 1995	
AS	"Dynamic Multipoint Virtual Circuits for Multimedia Traffic in Multihop Mobile Wireless Networks", by Martha E. Steenstrup; BBN Tech.,	
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EXAMINER

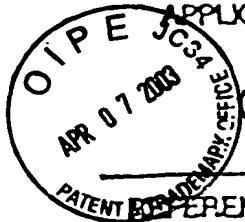
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43947SERIAL NO.
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2661LIST OF PATENTS AND PUBLICATIONS FOR
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H							
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HO							
HP							

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MR		"Collision-Avoidance Transmission Scheduling for Ad-Hoc Networks", by Zhenyu Tang and J.J. Garcia-Luna-Aceves, University of California Santa Cruz, Calif., 1997.
H		"QoS Networking with Adaptive Link Control and Tactical Multi-Channel Software Radios", by George Vardakas, et al., Communications Systems Div. of Raytheon Systems Co., San Diego, Calif.; 1997.
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